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PROVISIONAL SPECIFICATION.

Improvements in and relating to Means for Securing Soles and Heels to Boots & Shoes

I, GEORGE HORATIO JONES, of Great Russell Mansions Great Russell Street Bloomsbury, in the County of London, Surgeon Dentist and Doctor of Dental Surgery, U.S.A. do hereby declare the nature of this invention to be as follows:—

The object of this invention is to provide a means and greater facility for the fitting on and removal of soles and heels other than the usual manner of nailing or sewing on the same. For this purpose the welts & leather or other soles and heels to be fixed on the boots & shoes are punched out with a corresponding series of holes in such a manner at various distances from one another, and are fastened or rivetted any approved kind of grip or holdfast. These holdfasts are constructed of steel or other metal and consists of two parts one of which is a head and the other a cup or chamber so that when the head which is rivetted or fastened to the sole is forced into the cup or chamber which is fastened or rivetted to the welt or vice versa the sole thereby remains firmly attached to the welt until sufficient force is exerted in such a manner to part the same on these heads or chambers may be all cast and made in sections or they may be fastened or rivetted to a leather or metal strip or frame for by this means no perforation or punching of the leather of the soles or welts would be necessary as the said strips or frames holding such series of heads cups or chambers could be fastened or rivetted to the heels, soles and welts in a manner corresponding to their use. I employ longitudinal grips or holdfasts, these consist of two parts, a groove or channel in one part and a raised ridge of the other part, and are so constructed that upon pressure being applied they fit into one another in a dove tail like manner and by means of a certain spring or elasticity being provided in any convenient manner either in the ridge or channel for such purpose they become

Nov. 14th 1905

GEORGE HORATIO JONES.

COMPLETE SPECIFICATION.

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I, GEORGE HORATIO JONES, of 5 Great Russell Mansions, Great Russell Street, Bloomsbury, in the County of London, Surgeon Dentist and Doctor of Dental Surgery, (U.S.A.), do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement;—

This invention relates to improved means for securing soles and heels to boots and shoes.

Hitherto it has been proposed to attach cut soles and heel-lifts to the welts

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or insoles of boots or shoes by means of holdfasts comprising for example, a cup and a stud adapted to be inserted in the said cup, such parts being respectively attached to the several parts of the boots or shoes as required, whereby old and worn out-soles and heel lifts can be readily replaced or renewed without employing the usual nailing or sewing processes. Such holdfasts provide means for attaching the parts of the boots together at several points, the resiliency of the material from which the holdfast parts are made holding the parts of the boots locked together during ordinary use but permitting them to be separated by employing a sufficient and appropriately applied force.

According to my present invention the welts or in-soles and the out-soles and heel-lifts are attached together by holdfasts having elongated or linear inter-engaging or interlocking parts by means of which the several parts of the boot or shoe may be attached together along a number of lines instead of at points only.

These holdfasts may be individually attached directly to the several parts of the boot or shoe, or they may be secured to leather or metal strips or frames which are in turn secured to the heel lifts, out-soles and welts or insoles in any usual or convenient manner.

In the accompanying drawing I have shown how my said invention may be conveniently and advantageously carried into practice.

Figure 1 is an underside view of a boot having my improvements applied thereto, the out-sole and one lift of the heel being removed, and

Figure 2 shows a longitudinal section of the insole, and the heel, thereof.

Figure 3 is a plan, and

Figure 4 a longitudinal section of an out-sole piece having attached thereto the counter-parts of the holdfast parts shown in Figures 1 and 2.

Figures 5 and 6 are similar views to Figures 3 and 4 respectively, showing a heel lift.

Figures 7 and 8 are transverse sections of the two separate parts of a holdfast, respectively, drawn to an enlarged scale.

Figure 9 shows one part of a holdfast suitable for attaching heel lifts together.

Referring to Figures 1 to 6 of this drawing:—*a* is an insole having parts *b* of elongated or linear holdfasts attached thereto by rivets. These parts *b* are sunk in the thickness of the insole *a*, or of a heel lift *a'*, as shown in Figure 2. *c* are the complementary parts or counter-parts of the said elongated or linear holdfasts parts *b*, and are attached by rivets to an out-sole *d* (Figures 3 and 4), and a heel lift *e* (Figures 5 and 6). These parts *b* and *c* are made of steel, brass or other resilient material. The part *b* (Figure 7), comprises a trough *f* and the part *c* (Figure 8), has a ridge portion *g* which, by exercising sufficient force, may be introduced into the trough *f*, through a slot *h* the edges of which, by the resiliency of the material close behind the ridge *g* and grip the neck *j* of the holdfast part *c*. The parts *c* project from the material to which they are attached as shown in Figures 4 and 6 and the flanges *p* of the holdfast parts *b* and *c* are sunk into the material so that, when the out-sole and the heel pieces are attached to the remainder of the boot, the several parts will be drawn closely together and no appreciable free space will be left between the insole or heel lift and the piece attached thereto by the holdfast.

Any number of such holdfasts may be used to secure together the several parts of a boot or shoe and the said holdfasts may be arranged in any direction along the parts to be secured together. The holdfasts need not be arranged parallel to one another and some may be arranged in a direction substantially from heel to toe, while some are arranged substantially in a direction from side to side of the boot or shoe.

To avoid cutting the leather or like material to provide recesses to receive the holdfast parts, the latter may be attached to the surface of the material and a suitably perforated layer or packing of suitable material may then be placed between the two boot or shoe parts to fill up the space between them.

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It is not necessary that the holdfasts be made with straight or rectilinear troughs and ridges, since they may be made of any convenient contour for example, as in Figure 9, which shows a heel lift fitted with a plate *s* the edge of which is bent to form a curved ridge *g* which may, if desired, be surrounded by a flange *p*. The complementary holdfast part is formed by a correspondingly shaped plate provided with a curvilinear trough to receive the head *g*. The flanges *p* may be dispensed with and the parts bent over to form the ridge *g* or the trough in the counter-part may be split to facilitate the formation of these parts from sheet metal.

10 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

The means for securing an out-sole or a heel lift to the insole, welt or heel of a boot or shoe, comprising an elongated or linear holdfast part forming a trough and a complementary elongated or linear holdfast part provided with a ridge adapted to engage or lock within the said trough, substantially as described.

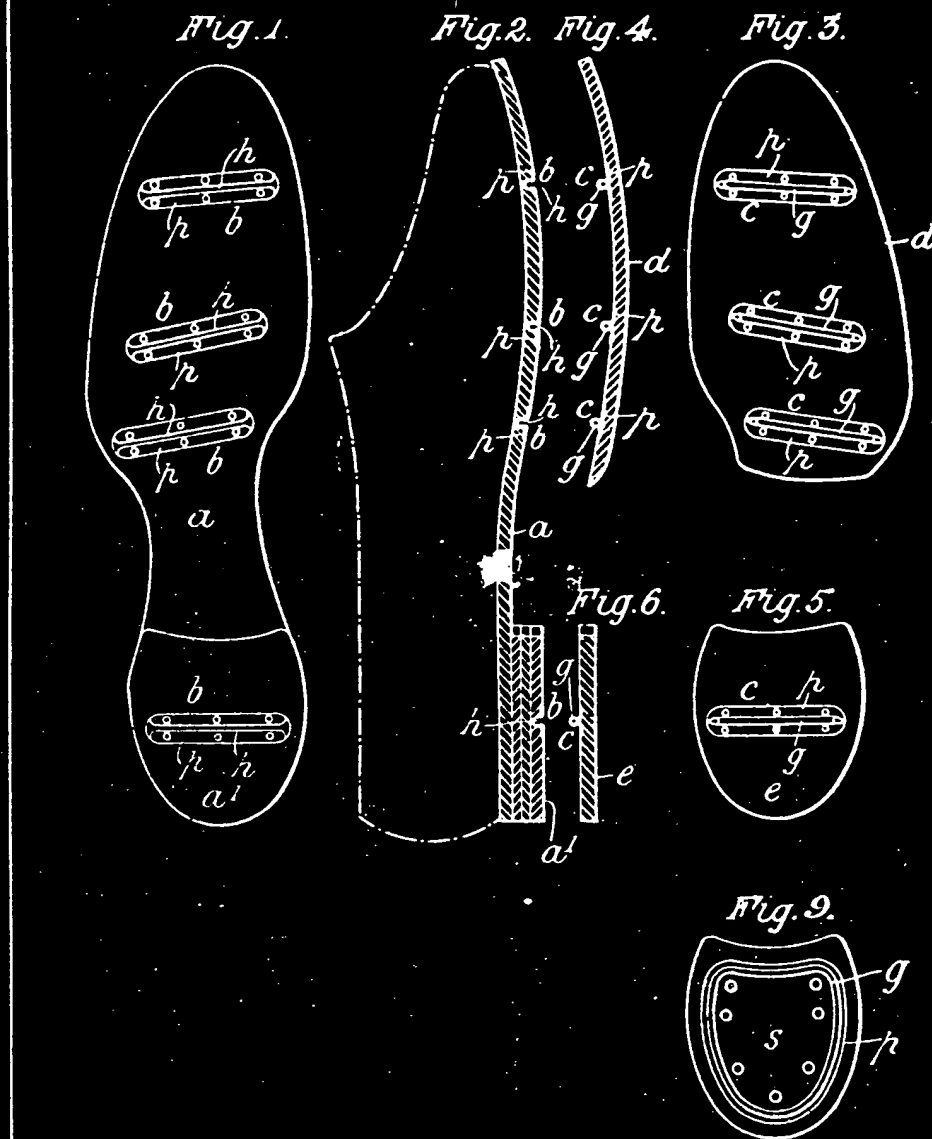
Dated this 14th day of June 1906.

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